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PCT/SE99/00811

## INTERNATIONAL COOPERATION TREATY

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents  
United States Patent and Trademark  
Office  
Box PCT  
Washington, D.C. 20231  
ÉTATS-UNIS D'AMÉRIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 10 January 2000 (10.01.00)	
International application No. PCT/SE99/00811	Applicant's or agent's file reference 2998505
International filing date (day/month/year) 12 May 1999 (12.05.99)	Priority date (day/month/year) 14 May 1998 (14.05.98)
Applicant BOHM, Christer et al	

1. The designated Office is hereby notified of its election made:

☒ In the demand filed with the International Preliminary Examining Authority on:  
02 November 1999 (02.11.99)

☐ in a notice effecting later election filed with the International Bureau on:  
\_\_\_\_\_

2. The election ☒ was  
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Beatriz Morariu Telephone No.: (41-22) 338.83.38
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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 99/00811

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04L 12/52, H04L 12/43, H04L 7/04, H04L 7/08, H04Q 11/04  
According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04L, H04Q, H04J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	"A Multi-Channel Network Architecture Based on Fast Circuit Switching", PhD thesis, Royal Institute of Technology, Stockholm, Sweden, 20 May 1996, P. Lindgren, TRITA-IT R 96:08, ISSN 1103-534X, ISRN KTH/IT/R--96/08--SE, page 104, line 12- page 107, line 9 --	1-21
A	"The DTM Gigabit Network", Christer Bohm et al, Journal of High Speed Networks, 3(2):109-126, 1994, page 10 - page 12 --	1-21
A	WO 9414255 A1 (TELIA AB), 23 June 1994 (23.06.94), page 6, line 38 - page 8, line 6; page 10, line 4 - line 38, figures 5-7, claims 1-20 --	1-21

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"B" earlier document but published on or after the international filing date

"I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

16 December 1999

Date of mailing of the international search report

17-12-1999

Name and mailing address of the ISA  
Swedish Patent Office  
Box 5055, S-102 42 STOCKHOLM  
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Authorized officer

Erik Johannesson/mj  
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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SE 99/00811

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 5241543 A (EIICHI AMADA ET AL), 31 August 1993 (31.08.93), column 1, line 22 - line 63; column 4, line 19 - column 5, line 68; column 8, line 58 - line 68, column 10, line 25 - column 11, line 20</p> <p style="text-align: center;">-- -----</p>	1-21

# INTERNATIONAL SEARCH REPORT

Information on patent family members

02/12/99

International application No.

PCT/SE 99/00811

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9414255 A1	23/06/94	EP 0739556 A SE 501373 C SE 9203796 A US 5654969 A	30/10/96 30/01/95 18/06/94 05/08/97
US 5241543 A	31/08/93	JP 2276339 A JP 2834242 B US 5103447 A US 5247518 A DE 4109150 A JP 3272232 A KR 145178 B	13/11/90 09/12/98 07/04/92 21/09/93 26/09/91 03/12/91 01/08/98

## PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 2998505	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/SE99/00811	International filing date (day/month/year) 12.05.1999	Priority date (day/month/year) 14.05.1998
International Patent Classification (IPC) or national classification and IPC <sub>7</sub> H 04 L 12/52, H 04 L 12/43, H 04 L 7/04, H 04 L 7/08, H 04 Q 11/04		
Applicant NET INSIGHT AB et al		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of \_\_\_\_\_ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand  02.11.1999	Date of completion of this report  04.08.2000
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. 08-667 72 88	Authorized officer  Dan Ionesco/mj Telephone No. 08-782 25 00

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE99/00811

## I. Basis of the report

1. This report has been drawn on the basis of *(Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.)*:

- ☒ the international application as originally filed.
- ☐ the description, pages \_\_\_\_\_, as originally filed,  
 pages \_\_\_\_\_, filed with the demand,  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_,  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.
- ☐ the claims, Nos. \_\_\_\_\_, as originally filed,  
 Nos. \_\_\_\_\_, as amended under Article 19,  
 Nos. \_\_\_\_\_, filed with the demand,  
 Nos. \_\_\_\_\_, filed with the letter of \_\_\_\_\_,  
 Nos. \_\_\_\_\_, filed with the letter of \_\_\_\_\_.
- ☐ the drawings, sheets/fig \_\_\_\_\_, as originally filed,  
 sheets/fig \_\_\_\_\_, filed with the demand  
 sheets/fig \_\_\_\_\_, filed with the letter of \_\_\_\_\_,  
 sheets/fig \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig \_\_\_\_\_

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the supplemental Box (Rule 70.2(c)).

4. Additional observations, if necessary:

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE99/00811

## V. Resoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims	<u>1-21</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-21</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-21</u>	YES
	Claims		NO

### 2. Citations and explanations

The claimed invention relates to methods and apparatuses for providing synchronisation in communication networks wherein data are transferred on bit-streams that are divided into recurrent frames. One purpose of the invention is to provide simple scheme for network synchronisation, which allows greater freedom as to the construction, build up and configuration of the network, as well as to network management during link failures, re-establishment of link synchronisation, and the like. This is achieved by the features stated in the characterising part of claims 1, 8 and 14, 18 respectively.

None of the documents cited in the International Search Report or any combination of them can be considered to disclose the invention as claimed in the claims 1, 8 and 14, 18. The cited documents describe only the general state of the art, which is not considered to be of particular relevance for the invention. Therefore, the methods and the apparatuses according to claims 1, 8 and 14, 18 fulfil the requirements of novelty and inventive step according to Article 33(2, 3).

Dependent claims 2 - 7, 9 - 13, 15 - 17, and 19 - 21 disclose further features of the invention according to claims 1, 8 and 14, 18 and fulfil the requirements of novelty and inventive step according to PCT Article 33(2,3).

Claims 1 - 21 also fulfil the requirement of industrial applicability according to PCT Article 33(4).